

PCF/09  
3/27/2001  
DA  
STIC staff

Serial Number: 09/78648

**ENTERED**

Processing Date: 3/27/2001  
Entered by: DA  
Verified by: (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/786,648

DATE: 03/29/2001

TIME: 11:00:23

Input Set : A:\Pto.da

Output Set: N:\CRF3\03292001\I786648.raw

```

7 <110> APPLICANT: Williams, Neil Andrew
9   Hirst, Timothy Raymond
11 <120> TITLE OF INVENTION: Peptide Fragments of Cholera Toxin B or Enterotoxin B as Vaccine
12   Adjuvants
14 <130> FILE REFERENCE: 7438
C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/786,648
18 <141> CURRENT FILING DATE: 2001-03-07
20 <150> PRIOR APPLICATION NUMBER: PCT/GB99/02970
22 <151> PRIOR FILING DATE: 1999-09-07
24 <160> NUMBER OF SEQ ID NOS: 6
26 <170> SOFTWARE: MS DOS
30 <210> SEQ ID NO: 1
32 <211> LENGTH: 27
34 <212> TYPE: DNA
36 <213> ORGANISM: artificial sequence
38 <220> FEATURE:
40 <223> OTHER INFORMATION: encodes heptapeptide of SEQ ID NO 2
42 <400> SEQUENCE: 1
44 gaagtaccag gtagtcaaca tatagat                27
48 <210> SEQ ID NO: 2
50 <211> LENGTH: 7
52 <212> TYPE: PRT
54 <213> ORGANISM: E. coli
56 <220> FEATURE:
58 <222> LOCATION: 51...57
60 <223> OTHER INFORMATION: isolated or synthetic EtxB beta4-alpha2 loop fragment derivable from
61   human variant E. coli
63 <400> SEQUENCE: 2
65 Glu Val Pro Gly Ser Gln His
66                               5
70 <210> SEQ ID NO: 3
72 <211> LENGTH: 12
74 <212> TYPE: PRT
76 <213> ORGANISM: E. coli
78 <220> FEATURE:
80 <222> LOCATION: 50...61
82 <223> OTHER INFORMATION: isolated or synthetic EtxB beta4-alpha2 loop fragment derivable from
83   human variant E. coli
85 <400> SEQUENCE: 3
87 Val Glu Val Pro Gly Ser Gln His Ile Asp Ser Gln
88                               5              10
92 <210> SEQ ID NO: 4
94 <211> LENGTH: 21
96 <212> TYPE: PRT
98 <213> ORGANISM: E. coli
100 <220> FEATURE:
102 <222> LOCATION: 45...65

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/786,648

DATE: 03/29/2001  
 TIME: 11:00:23

Input Set : A:\Pto.da  
 Output Set: N:\CRF3\03292001\I786648.raw

```

104 <223> OTHER INFORMATION: isolated or synthetic EtxB beta4-alpha2 loop fragment derivable from
105     human variant E. coli
107 <400> SEQUENCE: 4
110 Gly Ala Thr Phe Gln Val Glu Val Pro Gly Ser Gln His Ile Asp
111             5                      10                      15
113 Ser Gln Lys Lys Ala Ile
114             20
118 <210> SEQ ID NO: 5
120 <211> LENGTH: 21
122 <212> TYPE: PRT
124 <213> ORGANISM: E. coli
126 <220> FEATURE:
128 <222> LOCATION: 45...65
130 <223> OTHER INFORMATION: isolated or synthetic EtxB beta4-alpha2 loop fragment derivable from
131     porcine E. coli
133 <400> SEQUENCE: 5
135 Gly Glu Thr Phe Gln Val Glu Val Pro Gly Ser Gln His Ile Asp
136             5                      10                      15
138 Ser Gln Lys Lys Ala Ile
139             20
143 <210> SEQ ID NO: 6
145 <211> LENGTH: 13
147 <212> TYPE: PRT
149 <213> ORGANISM: artificial sequence
151 <220> FEATURE:
153 <223> OTHER INFORMATION: control peptide used in Example 5
155 <400> SEQUENCE: 6
157 Leu Arg Asn Glu Thr Thr Thr Thr Lys Gly Asp Tyr Cys
158             5                      10

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/786,648

DATE: 03/29/2001

TIME: 11:00:24

Input Set : A:\Pto.da

Output Set: N:\CRF3\03292001\I786648.raw

L:16 M:270 C: Current Application Number differs, Replaced Application Number

PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/786,648

DATE: 03/23/2001  
TIME: 09:44:37

Input Set : A:\es.txt  
Output Set: N:\CRF3\03232001\I786648.raw

Does Not Comply  
Corrected Diskette Needed

7 <110> APPLICANT: Williams, Neil Andrew  
9 Hirst, Timothy Raymond  
11 <120> TITLE OF INVENTION: Peptide Fragments of Cholera Toxin B or Enterotoxin B as Vaccine  
12 Adjuvants  
14 <130> FILE REFERENCE: 7438  
C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/786,648  
18 <141> CURRENT FILING DATE: 2001-03-07  
20 <150> PRIOR APPLICATION NUMBER: PCT/GB99/02970  
22 <151> PRIOR FILING DATE: 1999-09-07  
24 <160> NUMBER OF SEQ ID NOS: 6  
26 <170> SOFTWARE: MS DOS

## ERRORED SEQUENCES

143 <210> SEQ ID NO: 6  
145 <211> LENGTH: 13  
147 <212> TYPE: PRT  
149 <213> ORGANISM: artificial sequence  
151 <220> FEATURE:  
153 <223> OTHER INFORMATION: control peptide used in Example 5  
155 <400> SEQUENCE: 6  
157 Leu Arg Asn Glu Thr Thr Thr Thr Lys Gly Asp Tyr Cys  
158 5 10  
E--> 159 ??

*Delete at end of file*

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/786,648

DATE: 03/23/2001

TIME: 09:44:38

Input Set : A:\es.txt

Output Set: N:\CRF3\03232001\I786648.raw

L:16 M:270 C: Current Application Number differs, Replaced Application Number

L:159 M:333 E: Wrong sequence grouping, Amino acids not in groups!

L:159 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1